AYDIN DISPLAYS

a sparton company

1U LCD Keyboard Drawer Series
20” Screen Size

Model VFP201U

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Please read all of these instructions carefully before you use the device.
Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Safety Instructions

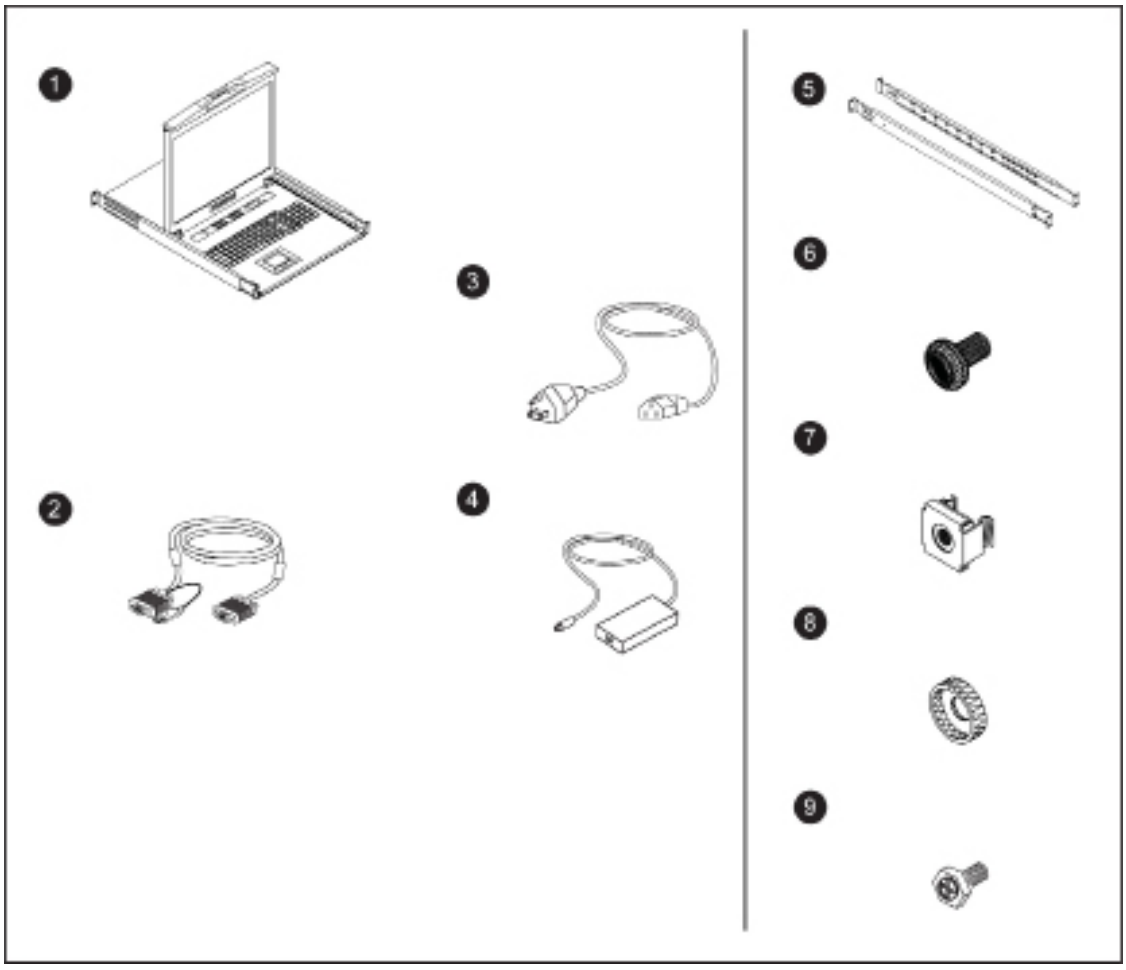
■ Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
■ Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 50º Celsius (114º Fahrenheit).
■ When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
■ When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
■ Arrange the equipment's power cord in such a way that others won't trip or fall over it.
■ If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
■ Observe all precautions and warnings attached to the equipment.
■ If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
■ Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fi re or electrical shock.
■ Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
■ If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Any changes or modifications made to this equipment may void the user's authority to operate this equipment.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

■ Re-position or relocate the receiving antenna.
■ Increase the separation between the equipment and receiver.
■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Package Contents



1. LCD keyboard drawer x 1 pc
2 . Combo 4-in-1 KVM cable x 1 pc
3. Power cord x 1 pc
4. Auto switch power adapter (for external power version) x 1 pc
5. Mounting bracket x 2 pcs
6. M6*15mm screw x 8 pcs
7. M6 cage nut x 8 pcs
8. Cup washer x 8 pcs
9. M3.2*6mm screw x 4 pcs

Before Installation

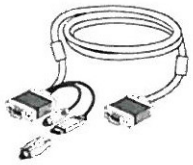
■ It is very important to locate the LCD Keyboard Drawer in a suitable environment.
■ The surface for placing and fixing the LCD Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
■ Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
■ Position LCD Keyboard Drawer with respect to related facilities.

Unpacking

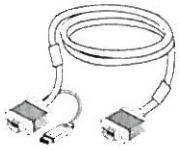
The LCD keyboard drawer comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

Optional Accessories

1. **Combo 4-in-1 KVM cable**
   1.1 6 feet
   1.2 10 feet
   1.3 15 feet

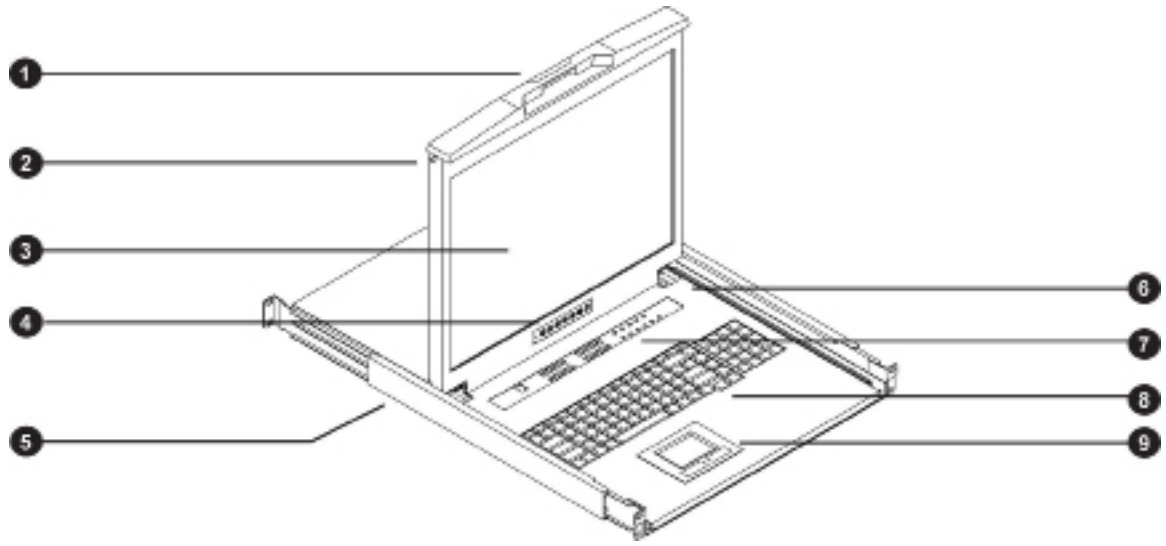


2. **USB 2-in-1 KVM cable**
   2.1 6 feet
   2.2 10 feet
   2.3 15 feet



3. **Power Cord**
   3.1 IEC power cord
   3.2 NEMA 5-15 power cord (US)

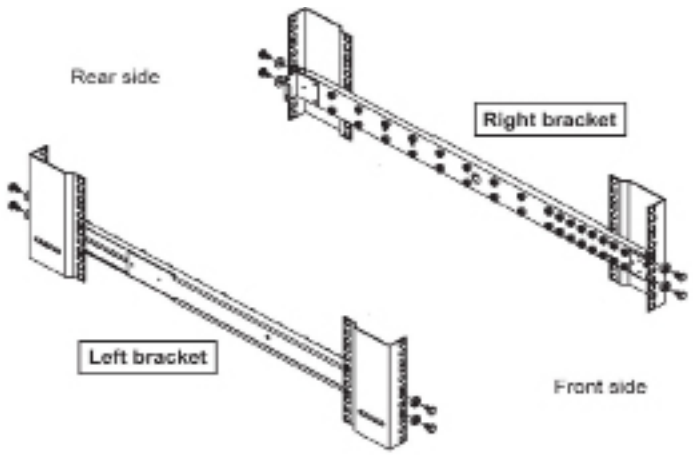
Structure Diagram



1. Carry handle to release the 2-pt lock
2. 2-point lock
3. LCD interchangeable module kit
4. LCD membrane
5. “One Man” Installation Slide
6. Micro switch for screen auto power off
7. Membrane switch (KVM option)
8. Keyboard interchangeable module kit
9. 2 buttons mouse interchangeable module kit

Installation

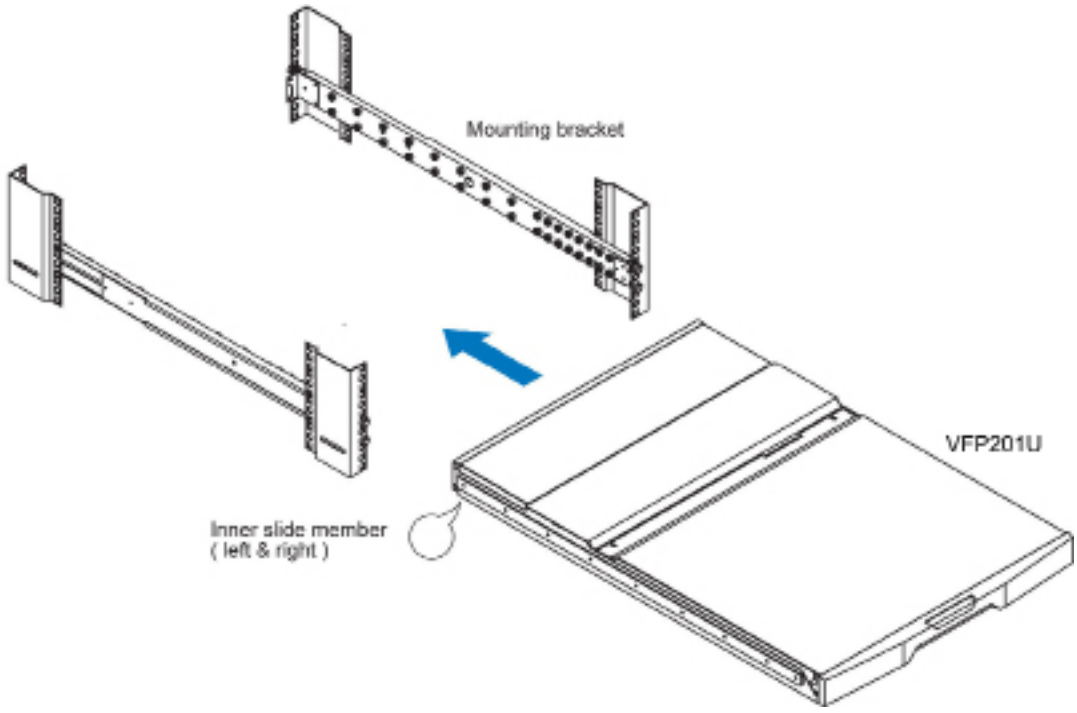
1



- Attach the left and right mounting bracket to rack 19" mounting rails.
- Adjust the mouting bracket to fit your rack.
- M6 screw and cup washer x 8 pcs included.

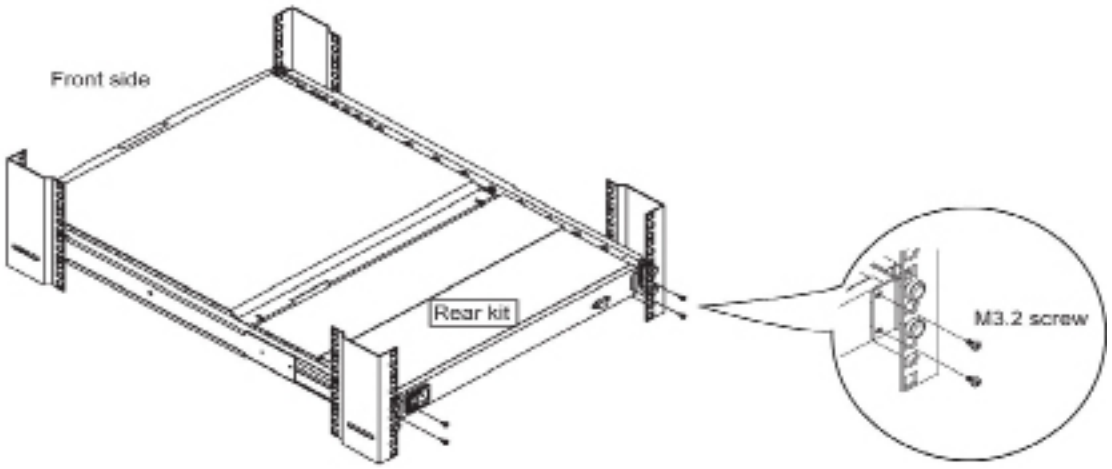
Caution : Leaving all M6 screw slightly loose, until you complete the installation in step 4

2



- Pick up the LCD tray.
- Insert the LCD tray by inner slide members into the mounting bracket.

3



■ Fix the rear kit to the mounting bracket by M3.2 screw x 4 pcs included.

Caution : This step is necessary. Failure to complete this will cause damage.

4 Complete the installation

■ Tighten all 8 pcs of M6 screw to complete the installation.

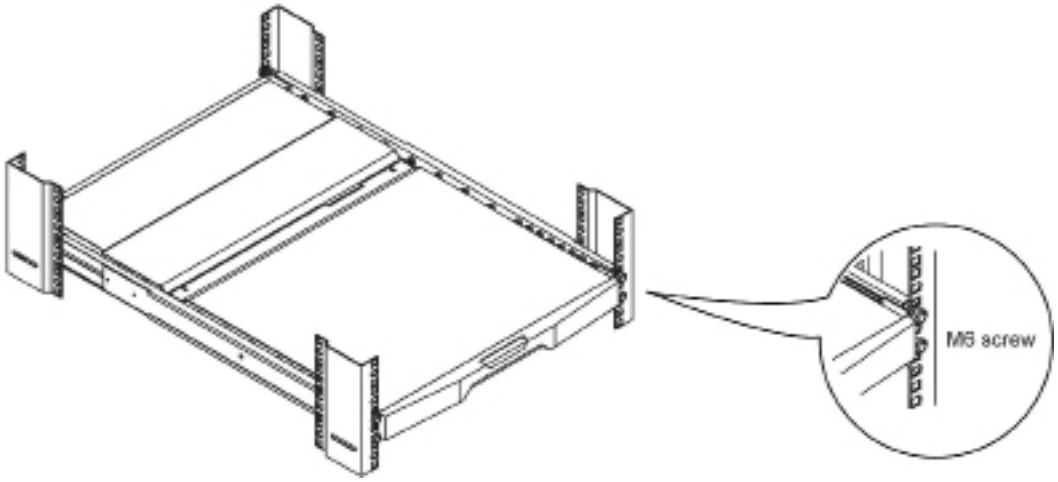


Figure 1. Sliding out the LCD keyboard drawer by pressing the carry

■ Press the carry handle button. Gently pull the carry handle toward the front of the LCD shown in Figure 1.

Figure 2. Flipping up the LCD to a suitable angle.

■ Flip up the LCD to a suitable angle shown in Figure 2.

Figure 3. Operating the LCD keyboard drawer

■ Operate the LCD keyboard drawer shown in Figure 3.

VFP201U (Single console)

- Connections to server via PS/2 interface

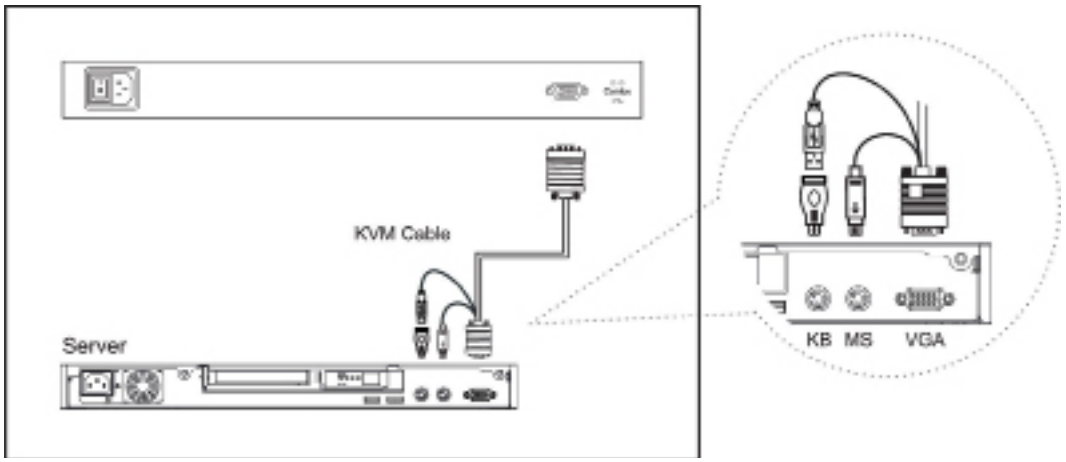


Figure 6. Example of connecting VFP201U Combo 4-in-1 KVM cable to server via PS/2 interface

VFP201U (Single console)

- Connections to KVM via PS/2 interface

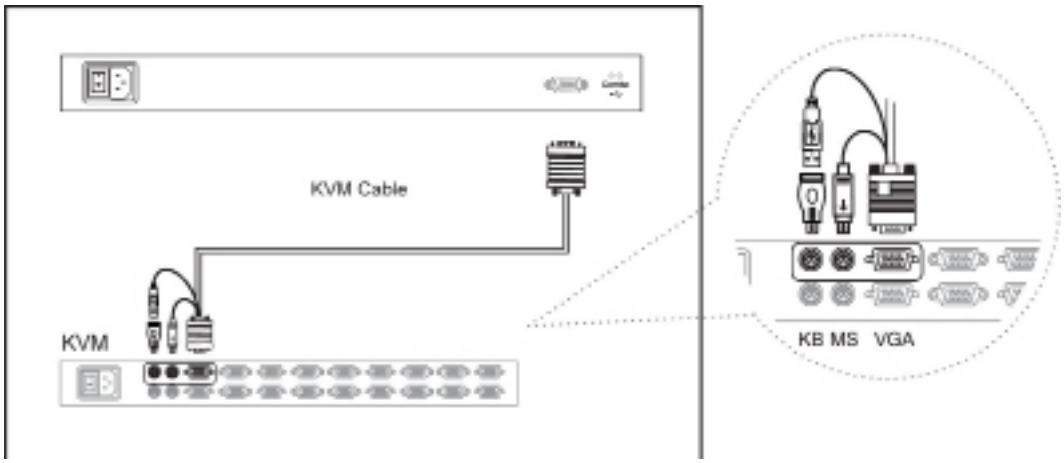


Figure 7. Example of connecting VFP201U Combo 4-in-1 KVM cable to KVM via PS/2 interface

Remarks :

- The above connection is only for the LCD keyboard without KVM switch built-in.
- For the LCD keyboard drawer with KVM switch built-in, please refer to attached KVM switch manual.

Caution: The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The company is not responsible for damage caused in this way.

- Connections to server via USB interface

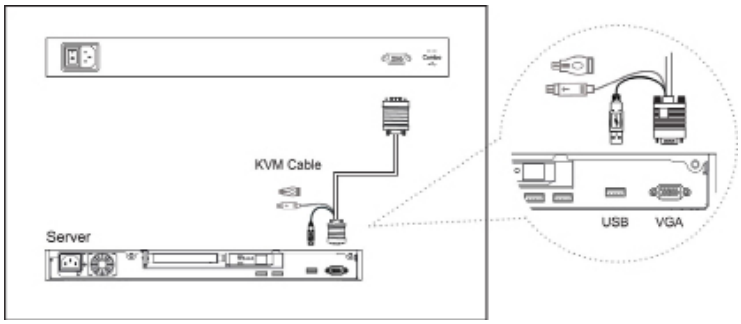


Figure 8. Example of connecting VFP201U Combo 4-in-1 KVM cable to server via USB interface

- Connections to KVM via USB interface

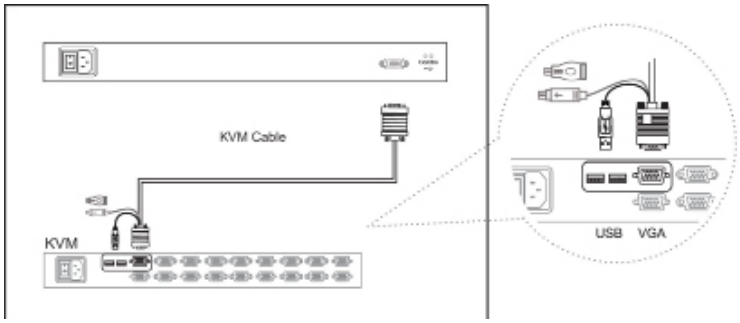


Figure 9. Example of connecting VFP201U Combo 4-in-1 KVM cable to KVM via USB interface

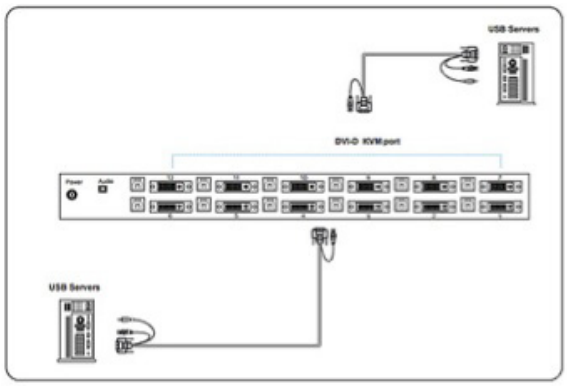


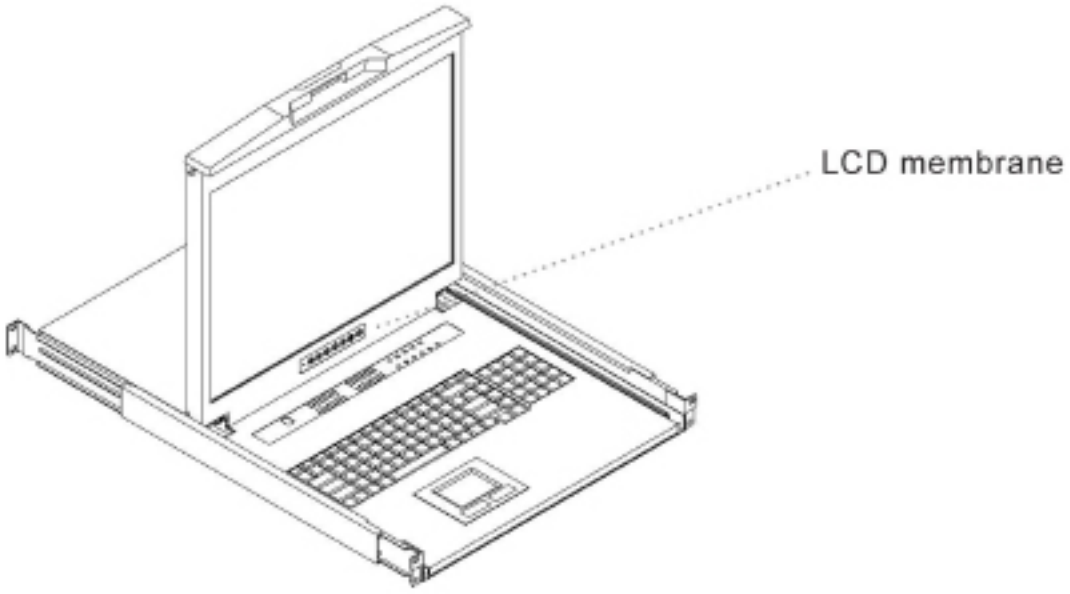
Figure 10. Example of connecting VFP201U DVI KVM to Server

Remarks :

- The above connection is only for the LCD keyboard without KVM switch built-in.
- For the LCD keyboard drawer with KVM switch built-in, please refer to attached KVM switch manual.

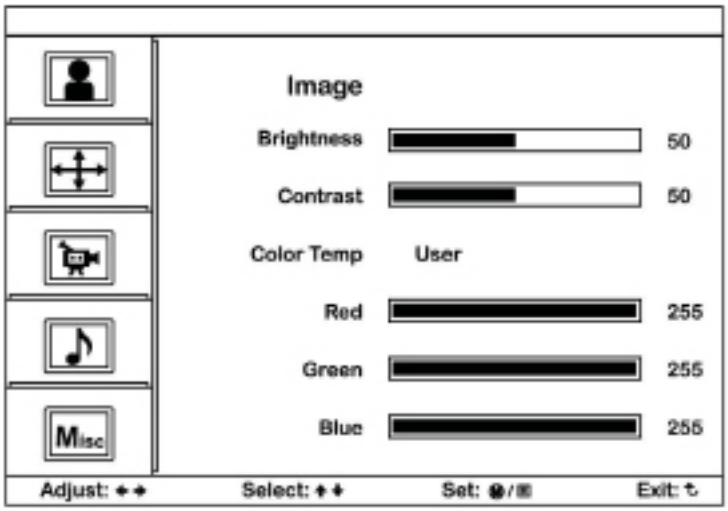
Caution: The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The company is not responsible for damage caused in this way.

On-screen Display Operation



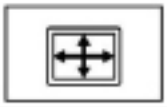
Membrane Switch	Function
○ ● ●	Power light Green = On Orange = Power saving
⊖	Power on / off LCD
M	Display the OSD menu
◈◈◈◈	Scrolls through menu options and adjusts the displayed control
	Exit the OSD screen

On-screen Menu



OSD Configuration Page

Image:
To enter into the brighness, contrast, color temp, red, green, and blue



Geometry:
To enter into the auto adjust, H position, V position, phase and clock

Video:
To enter into the colour, tint, sharpness, noise reduction, DCDi and TV Setup

Audio:
To enter into volume, bass, treble, balance, AVL and mute

Misc:
To enter into the language, OSD position, graphic mode, ratio, reset and timer

Specifications

Item	Description
Form Factor	1U rack mounting on slide-out rails
LCD Manufacturer	Samsung
Series	VFP201U
Diagonal Size	20” TFT
Max. Resolution	1600 x 1200
Brightness (cd/m²)	300
Color Support	16.7 M
Contrast Ratio (typ.)	800:1
Viewing Angle (H/V)	160° x 160°
Display Area (mm)	408 x 306
Tr Response Time (ms)	1
LCD Panel MTBF (hrs)	50,000
VGA Signal Input	Analog RGB 0.7Vp-p Sync. Type
	Separate H/V, Composite, SOG
Resolution	720 x 400, 70 Hz
	640 x 480, 60/ 70/ 72/ 75 Hz
	800 x 600, 60/ 70/ 72/ 75 Hz
	1024 x 768, 60/ 70/ 75 Hz
	1152 x 864, 60/ 70/ 75 Hz
	1280 x 720, 60/ 75 Hz
	1280 x 1024, 60/ 70/ 75 Hz
	1400 x 1050, 60 Hz
	1600 x 1200, 60 Hz
	1152 x 900, 60/ 76 Hz
Plug & Play	EDID 1.3
Console Port (Combo)	DB-15 connector for VGA / keyboard / mouse (Combo interface)
Power Input	Auto-sensing 100 to 240VAC, 50 / 60Hz
Power Consumption	Max. 48 Watt, Standby 5 Watt
Compatibility	Multi-platform - Mix PCs, SUNs, IBMs, HPs & DELLs
Regulation Approval	FCC, CE

Options

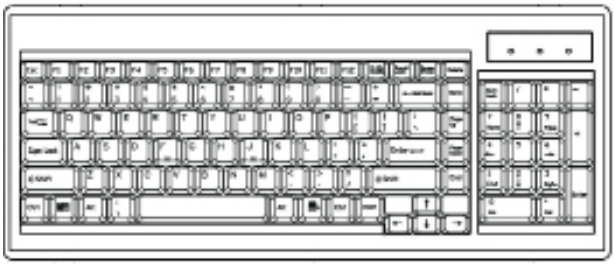
KVM Integration	Matrix & combo KVM with IP console and 2-console selection
Keyboard & mouse	Full size keyboard integrated with touchpad & 2 buttons mouse interchangeable module kit
Graphic Input	DVI-D, BNC & S-Video input
DC Power	DC power input with 12V, 24V, 48V selection

Environmental

Operation	0° to 50°C Degree
Storage	-5° to 60 °C Degree
Relative Humidity	5~90%, non-condensing
Shock	10G acceleration (11ms duration)
Vibration	5~500Hz 1G RMS random vibration

Dimensions	**Product**	**Packing**	**Net Weight**	**Gross Weight**
	442 x 650 x 44 mm 17.4 x 25.6 x 1.73”	589 x 856 x 168 mm 23.2 x 33.7 x 6.6”	20 kg 44 lb	26 kg 57 lb

Keyboard & Mouse



e keyboard integrated with touchpad
& 2 buttons mouse interchangeable module kit

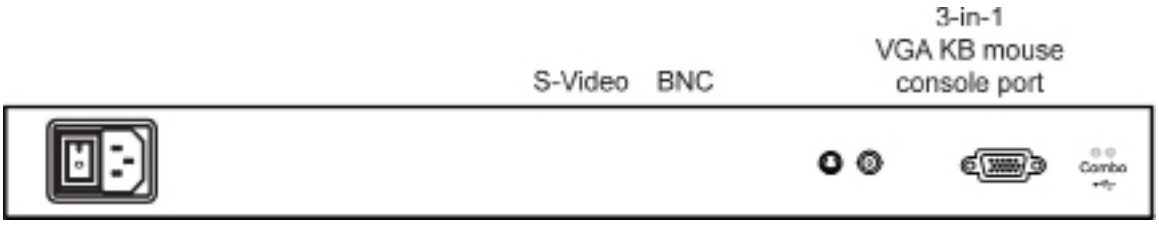
KVM Options

Our KVM is designed to seamlessly integrate into the rear of our full range of LCD drawer solutions:
- For KVM operation, please refer to KVM user manual
- Option with Multiple consoles Matrix KVM
- Option with high density & cost efficient Combo KVM integration with 8 ports
- Option with low cost PS/2 KVM

DVI-D (Optional)

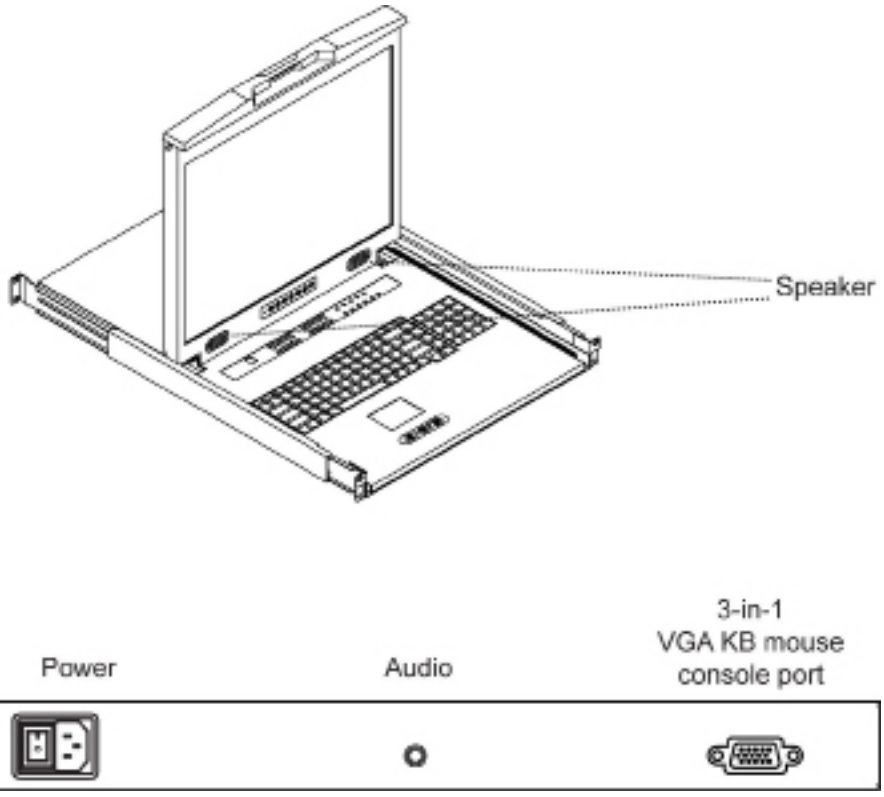
Remarks :
- Package includes 1 x 6ft DVI-D cable

BNC + S-Video (Optional)



Remarks :
- Package includes 1 x 6ft S-Video cable

Audio Option



Remarks
- Audio input is 35mm audio plug
- The speaker is sharing the same power with LCD.

Troubleshooting

1. Is interference signal appeared on LCD normal when shutting down the computer?
In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.

2. The membrane power light is not ON
Press the power On / Off on LCD membrane to check if the monitor is in the ON mode.
Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

3. Screen image is not centered or sized properly

Press the button for two seconds to automatically adjust the image.
Adjust the H-position and V-position settings via On-screen menu.

4. Is the LCD keyboard drawer hot-pluggable ?
The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard receives power.

5. How do I adjust the resolution?
To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, “640 x 480”, “800 x 600”, “1024 x 768”, “1152 x 864”, “1280 x 1024”, “1600 x 1200” are determined by the display card in your computer.